

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 6554 **TITLE:** INDUSTRIAL ELECTRICIAN III **GRADE:** S-20

DEFINITION:

Under supervision, as a lead worker to supervise and participate in the installation, modification, maintenance, and repair of industrial electrical systems, controls, and equipment; and to do related work as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

Employees in this class are skilled journeyman electricians who have normally progressed from the Industrial Electrician II level on a selective basis in consideration of acquired experience, individual aptitudes, and demonstrated proficiency to perform the associated tasks. A high degree of independent judgment is exercised due to the nature of the duties involved.

Incumbents act in the capacity of working leaders over a limited number of subordinate level Industrial Electricians in the performance of specific tasks. May temporarily, in the absence of the Industrial Electrician Supervisor, assume higher level supervisory responsibility.

ILLUSTRATIVE DUTIES:

Plans, assigns, and supervises the work of a crew consisting of apprentice and journeyman level industrial electrical workers;

Makes inspections of plant operating motors, distribution centers, motor control centers, electronic air filter packs and other electrical equipment and initiates corrective action as required;

Participates in the maintenance and repair of electrical control panels and electrical circuits, motors, distribution centers, breakers, pumps, motor controls, switch gears, relays, regulators, and other electrical or electronic equipment; troubleshoots the most complex electrical problems;

Responds to emergencies during off-duty periods;

Monitors the inventory of repair and replacement parts and supplies and initiates purchase requests as needed;

Collects data for program of preventive and corrective maintenance on electrical equipment and controls;

Plans, prioritizes, and schedules work of subordinate crew members;

Enforces safety regulations and procedures.

Working conditions may include inside and outside work in inclement weather, climbing ladders and scaffolding, and descending underground, as well as exposure to hazardous chemicals, infectious bacteria, and the hazards of high voltage electrical shock.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES:

Thorough knowledge of the standard practices, tools, and equipment of the electrical trade;

Thorough knowledge of applicable electrical and safety codes;

Considerable knowledge of electrical controls and motors, including high voltage three-phase service;

Considerable knowledge of the hazards and precautionary methods peculiar to the trade;
Ability to troubleshoot and repair industrial type electrical systems and equipment;
Ability to work from drawings and specifications;
Ability to issue instructions and train less experienced industrial electrician workers.

EMPLOYMENT STANDARDS:

Any combination of education and experience equivalent to high school graduation or a G.E.D. issued by a state department of education, supplemented by successful completion of an approved electrician's apprentice program, plus three years of experience as a journeyman electrician at the level of Industrial Electrician II or equivalent journeyman-level experience.

NECESSARY SPECIAL REQUIREMENTS:

Adequate color perception to distinguish colors of electrical wiring.

CERTIFICATES AND LICENSES REQUIRED:

Possession of a valid Master Electrician License.
Possession of a valid Air-Conditioning & Refrigeration Institute Certificate (ARI).
Possession of a valid state motor vehicle operator license.

REVISED: January 24, 2001
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